

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	7462022
<b>Application Number:</b>	10619796
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	7886
<b>Title of Invention:</b>	SPARSE AND EFFICIENT BLOCK FACTORIZATION FOR INTERACTION DATA
<b>First Named Inventor/Applicant Name:</b>	Francis X. Canning
<b>Customer Number:</b>	20995
<b>Filer:</b>	John R. King/Shirley Martinez
<b>Filer Authorized By:</b>	John R. King
<b>Attorney Docket Number:</b>	CANNING.001CP2
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<b>Application Type:</b>	Utility under 35 USC 111(a)

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Payment Type	Credit Card
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**File Listing:**

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	CANNING-001CP2_issuefee.pdf	99539	no	1
			e0104046722b2b9cb5bb51d711aa9a09c3b2e3d0		
Warnings:					
Information:					
2	Miscellaneous Incoming Letter	CANNING-001CP2_commun.pdf	81688	no	2
			43bf8f257ad609a7df5cbbe548c936a93a734cdd		
Warnings:					
Information:					
3	Fee Worksheet (PTO-875)	fee-info.pdf	31848	no	2
			22e8d1b58de15ffc4c81943e238eca07dfc977da		
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Total Files Size (in bytes):			213075		

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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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**New International Application Filed with the USPTO as a Receiving Office**

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